



Hannover Messe 20. - 24.04.09  
Hall 8 / Stand D14

## DISPLACEMENT & POSITION SENSORS



## DISTANCE SENSORS

for extreme long measuring ranges

Measuring ranges:  
up to 300m (without reflector)  
up to 3000m (with reflector)

Outstanding repeatability

Fast response time

Compact design

Various interfaces



## DRAW WIRE SENSORS

High precision and accuracy

Measuring ranges from 50mm to 50m

Customer specific OEM's

Very compact sensor design

Output: encoder, potentiometer, current, voltage

Simple to install and easy-to-use



FOR MORE INFORMATION

[www.micro-epsilon.com](http://www.micro-epsilon.com)

MICRO-EPSILON

94496 Ortenburg / Germany

Tel. +49 85 42/168-0 • [info@micro-epsilon.com](mailto:info@micro-epsilon.com)

## Insulation Tester

*fits in a pocket*

The compact MIT200 testers incorporate a number of safety features, including live circuit protection giving an audible warning even if the instrument's internal fuse has failed. The testers incorporate backlit LCDs with a large analogue-style arc to provide a rapid indication of results, together with a digital readout to give accurate numerical data for inclusion in reports and test certificates. After a test, results are displayed until the next test is initiated. Instruments in the MIT200 range are available in two versions. The MIT220 offers insulation testing at 250V and 500V, while the MIT230 allows testing at 250V, 500V and 1000V. MIT200 instruments are supplied complete with test certificates and test leads. The leads feature right-angled connectors to prevent tangling and reduce stress in the cable. MIT230 testers and accessories are supplied in a rigid carrying case.



MEGGER

Tel. +44-1304-502101

For SLI: enter 26667 at [www.tim-info.com/ien](http://www.tim-info.com/ien)

## Temperature Control System

*local control and central monitoring*

DigiTrace NGC-20 is an advanced field-mountable electronic temperature control system providing local control and central monitoring capabilities for industrial heat-tracing applications. Compared to a centralised control system, this thermostat can significantly reduce costs without compromising safety and reliability. Approved for hazardous areas, it is also available with an integrated intelligent safety temperature limiter (SIL 2 device). Heat-tracing is widely employed for temperature maintenance on process lines, vessels and other equipment. The demand for safe and reliable operation has increased the need for centralised access to critical heat-management system information. The system meets these objectives by combining the benefits of both centralised and local control. Temperatures, earth leakage, operating currents and other crucial data associated with heat-tracing circuit integrity is constantly monitored and reported. Both monitoring and configuration can be achieved remotely via the User Interface Terminal and/or by using supervisory software application.



TYCO THERMAL CONTROLS

Tel. +32-16-213511

For SLI: enter 27050 at [www.tim-info.com/ien](http://www.tim-info.com/ien)

## Humidity Logger

*with LCD display*

The USB-502-LCD standalone data logger measures and stores up to 16,379 relative humidity and 16,379 temperature readings over the 0 to 100% RH and -35 to 80°C measurement ranges, and calculates dew point. The high-contrast LCD shows a variety of temperature and humidity measurements as well as logger status information. At the touch of a button, users can turn on the LCD display, and cycle through the most recent, the maximum, and the minimum logged temperatures and relative humidity readings. Flashing LEDs indicate logging status, and a user-replaceable long-life lithium battery is included, which can typically allow up to one full year of logging. The USB-502-LCD logger is supported by USB-500 Series Data Logging Application software, included with the package. The intuitive software is used initially to configure the logger, program alarm thresholds, logging rates, start times, and measurement units, etc.



MEASUREMENT COMPUTING

Tel. +1-508-9465100

For SLI: enter 27179 at [www.tim-info.com/ien](http://www.tim-info.com/ien)

## Wall Thickness Gauge

*eliminates coating from thickness measurements*

Making precise wall and coating thickness measurements can be fast and easy using the TI-CMX, TI-CMXDL (data-logging) and TI-CMXDLP (data-logging & A-scan) ultrasonic thickness gauges. Not only do the models measure coating and wall thickness quickly and accurately—from only one side—but they automatically measure and eliminate any coating from wall thickness measurements, allowing users to locate the finest corrosion and pitting—without removing the coating.



Four user-selected operating modes are included: Coating On, Coating Off, Thru Coat and Coating Only. All measurements are temperature compensated. An oversized backlit graphic LCD features easy-to-read fonts, graphics and display codes switch show all critical settings. The units add built-in memory with RS-232 output for transferring data to a Printer or PC. It also includes free Datacomm Data Transfer & Analysis Software and an RS-232 cable. Data Files can be user-set for a "grid type" structure or a "sequential" file.

CHECKLINE

Tel. +31-88-0029000

For SLI: enter 27042 at [www.tim-info.com/ien](http://www.tim-info.com/ien)

## Thermal Imager

*live screen*

The HeatSeeker incorporates an Auto Hot/Cold Tracker, a technology that automatically pinpoints the hottest and coldest temperatures within a single screen by highlighting both with dual cursors. A quick scan of the Auto Hot/Cold Tracker thus identifies current or potential problems, such as overloaded circuits, inefficient heat transfer, moisture leakage, or fluid distribution for a stuck valve. For accuracy in the field, HeatSeeker captures a digital photo of the subject that is then blended with a full infrared picture to provide added detail to the image under review. Depending on the complexity of the image, the technician can choose to blend the digital photo with 25%, 50% or 75% infrared to better identify suspected components. The digital image and the thermal can also be shown simultaneously in the display. Provided ThermalVision software makes it easy to view, edit or analyze images on a PC.



IDEAL INDUSTRIES

Tel. +1-815-8955181

For SLI: enter 27221 at [www.tim-info.com/ien](http://www.tim-info.com/ien)

## Laser Measurement Sensor

*immunity up to 40,000lux*

The DT50 laser measurement sensor's temperature-stable light spot achieves a positional accuracy of 10mm over the whole 10 metre distance range. Black/white shift difference is negligible. The sensor is equally competent in measurements with reflective surfaces. Easy to install, the DT50's intuitive set-up and key operated menu can be navigated without the operating manual, allowing easy, on-site adjustment to suit working conditions and practices. Virtually immune to ambient light interference, the DT50 has a stated immunity of up to 40,000lux making it suitable for a wide variety of conditions, from poorly lit warehouses to exterior site applications, and even with rapidly changing light intensities, e.g. floodlights. The DT50 has a temperature range from -30 to 65°C. With a tough zinc alloy casing and optional weatherproof housing it can be used in conditions as diverse as cold stores, ports and steel mills.



SICK

Tel. +49-7681-2020

For SLI: enter 27177 at [www.tim-info.com/ien](http://www.tim-info.com/ien)